



The 15th International FLINS Conference on Machine learning,
Multi agent and Cyber physical systems

August 26-28,2022,Tianjin,China



Special Session on **Advances in Reasoning Based Rational Decision Making**

<https://flins2022.scievent.com/>

FLINS2022 is the fifteenth in a series of conferences on computational intelligence systems with focus on Machine learning, Multi agent and Cyber physical systems. The conference will be held in Tianjin, China.

FLINS 2022 proceedings will be again published as a book by the World Scientific and it will be again included in the ISI proceedings as previous ones, as well as be included in EI Compendex for indexing. Moreover, special issues of SCI indexed journals will be devoted to a strictly refereed selection of extended papers presented at FLINS 2022.

Scope and Motivation

Decision making is the crucial step in many real-world applications such as organization management, financial planning, products evaluation, recommendation, and cyber-physical systems. Various methods and approaches have been explored from different viewpoints. Rational decision making becomes more and more critical especially in the digital marketing industry nowadays, because it leverages objective data, logic, and analysis instead of subjectivity and intuition to help solve a problem or achieve a goal. Accordingly, rational decision-making methods with the theoretical foundations to address the accuracy, reliability and precision of decision making have been a hot research topic owing to their importance and effectiveness.

Essentially, the process of decision making can be interpreted as a reasoning process from provided information or domain knowledge to some conclusions. Reasoning provides a formal way and fundamental mechanism for problem representation and decision-making process. Therefore, this special session focuses on the state-of-the-art research results on decision making from the viewpoint of reasoning based methods and techniques in its broadest sense and aims at providing an opportunity for collecting some excellent work on the above common research areas, including compiling the latest research, development and practical experiences as well as up-to-date issues; reviewing accomplishments, assessing future directions and challenges in the field.

Accordingly, this special session welcomes contributions within one of the following research topics, which can be theoretical formalisms, methodologies; algorithms investigation or practical applications:

- Automated reasoning approaches for decision making
- Approximate reasoning approaches for decision making
- Logical specification of decision-making problems
- Logical theories for decision making
- Applications of rational decision making to policymaking, service evaluation, system credibility verification, cyber-physical systems, etc.

Important Dates

Full paper submission	April 30, 2022
Notification of acceptance	May 31, 2022
Camera-ready paper submission	June 15, 2022
Author registration	June 25, 2022
Conference Date	August 26-28, 2022

Paper Submission

<https://easychair.org/conferences/?conf=flinsiske2022>

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